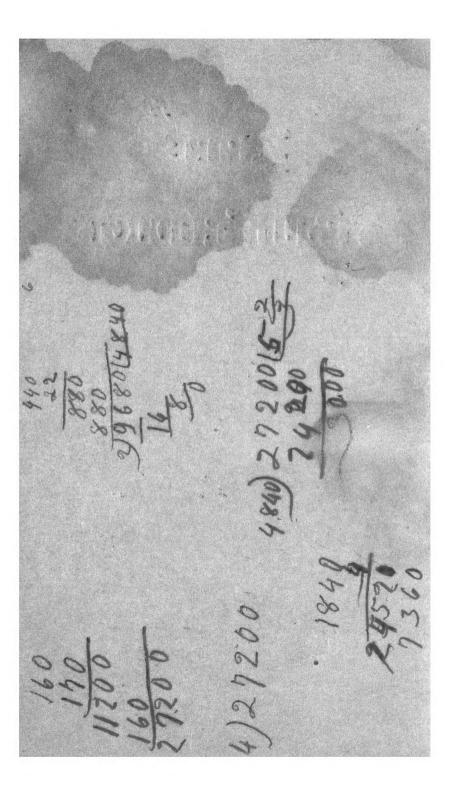
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"EMPIRE" GYPSUM PRODUCTS



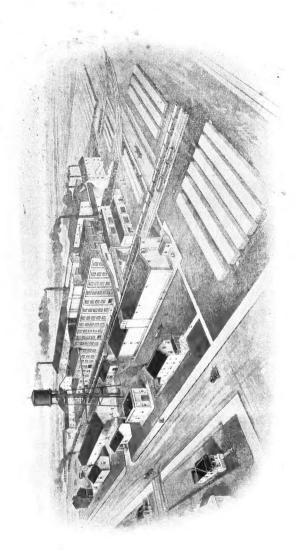
Manufactured by

MANITOBA GYPSUM COMPANY, LTD.

504 Trust and Loan Company of Canada Bldg.

WINNIPEG, MAN.





FOREWORD

OMFORT of the warm, cosy fireside kind in winter, and the cool lake shore kind in summer is the aim of all who build at the present time, especially in this Western country, with its widely differing extremes of temperature.

Whether it be a modest or expensive home, imposing commercial and business structure, or a humble corner store, a splendid public building, a charming private club house, the demand of the owner is always the same, "Build so that it will be warm in winter and cool in summer."

How to do this and do it well is the problem that Architects and Builders are now successfully solving every day the solution made easy for them by another instance of Westen Canadian progressiveness and success, as shown by the Manitoba Gypsum Co., the Pioneers of Gypsum Products, the Manufacturers of a preparation that makes the superior finishing of interior walls as certain as the building itself. For it is in this respect that great care must be taken, the interior walls must be just as weather tight and equally able to keep out the cold of mid-winter and the heat of mid-summer, as the exterior walls must be of sound and lasting construction to endure the stress of storm and time.

This has been the great difficulty that Builders have had to contend with for a long time, and it was to solve it that the Manufacture of Plaster in its present form from Gypsum came into existence.

The rapid development of our plant, which has for sometime been making the "Empire" Brands of Gypsum Products, is in itself sufficient proof of the superiority of our manufactures.

The experience of a life-time, the study of all methods as known at the present, frequent and prolonged tours of investigations to other manufacturing centres, and continuous intelligent experiments by the Management have resulted in the establishment of the most modern and up-to-date plant on the Continent, producing the most easily handled and satisfactory product that you could wish to specify.

The purpose of this Booklet is to give you an idea of its uses and merits as well as how it may be best handled.

We Manufacture

"Empire" Wood-Fibre Plaster	Page 6
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WE HANDLE ALL KINDS OF BUILDERS' SE	IPPLIES

THE USES OF GYPSUM PRODUCTS.

A careful study of the statistics of fire losses will bring home to every one the necessity of fireproof and fire retardent construction.

A large percentage of loss is often caused by fire extending beyond the limit of building in which it originated. Loss of this kind can be reduced to a minimum by the use of a fire resistant of low co-efficient of expansion.

Fireproofing at best is a dead load, forming no part in the support of the structure, consequently, lightness in weight is an essential. Again, fireproofing should have no appreciable expansion under heat action: Materials of a nature that readily expand under heat, contract when water is applied to heated surface; this contraction is frequently the cause of fireproofing giving way, thus becoming an aid, instead of a retardent; further, gypsum excepted, fireproofing is mainly composed of high-expansion materials, which are either rendered useless by buckling, or in the case of tile by the destruction of the tile face.

Fireproofing, to be efficient, must have a combination of qualities such as can only be found in manufactures from gypsum—we refer more particularly to patent plaster, plaster board and plaster tile.

Gypsum plasters and tile recalcine to some extent, under great heat, and water applied under heavy pressure only removes this calcined portion. Gypsum products will stand up against heavy water streams, and will not burst, as is frequently the case with other fireproofing material.

Patent plasters and Gypsum products are light in weight, tough and adaptable, and will stand more abuse than any other plastering or fireproofing material.

Gypsum plasters are incombustible, and owing to low conductivity, form a perfect protection for steel construction. Heat penetrates plaster at such a slow rate, that metal will hardly get warm during the duration of an ordinary fire.

Gypsum, in its calcined form, can be put to so many uses that it is now looked upon as one of the most important and useful of all materials used in construction. As a practically indestructible wall plaster on wood and metal lath, brick, tile and concrete walls, etc., it will last as long or longer than the material it covers; as a fireproofing, in the shape of a plaster tile, it will stand against a fire stream that will cause any other material to expand and collapse; in the plaster board form it is a better than lath substitute, and is a fire

retardent that can be adapted to almost any form of construction; it enters largely into the composition of asbestos pipe coverings, and wherever insulation against cold and heat is required. Gypsum products in some form are invariably called for on good construction by those who understand the peculiar properties of the many materials used in up-to-date building operations.

"EMPIRE" WOOD FIBER PLASTER.

"Empire" Wood Fiber Plaster can be applied in the same manner as any other hardwall plaster, and gives equally good results on "Empire" Plaster Board or "Empire" Plaster Tile, wood or metal lath, and on brick or terra cotta walls.

The wood fiber bond used in this plaster gives it lightness, elasticity and toughness, while the other ingredients give the necessary hardness, strength and

lasting qualities.

"Empire" Wood Fiber Plaster is a non-conductor of sound, electricity, heat and cold; it is absolutely verminproof; it cannot be damaged by water, and is a fire-retardent.

INSTRUCTIONS FOR MIXING AND APPLYING "EMPIRE" AND OTHER BRANDS OF WOOD FIBER PLASTER.

"Empire" Wood Fiber Plaster can either be used neat, or in the proportion of one part plaster to one part of clean, sharp sand for wood lath and Plaster Board work; for brick or tile walls, two parts of clean, sharp sand can be used to one part of "Empire" Wood Fiber Plaster.

In order to obtain the best results, "Empire" Wood Fiber Plaster should be used as put up by us, without any mixture other than clean water; but where good, clean, sharp sand is obtainable, excellent results can be got by following the specifications. The attention of architects and builders is specially drawn to our specifications, as there is a tendency to oversand the material, with correspondingly poor results. We cannot guarantee plaster work unless the labor is performed by skilled mechanics and the material used in accordance with our instructions.

Wood Fiber Plaster should be mixed in a water-tight box, about $3\frac{1}{2} \times 7 \times 1$ deep. Do not overlook an important fact—the box must be kept clean, as old mortar hastens the setting, and is frequently the cause of unsatisfactory results. Raise one end of the box. Pour sufficient water in one end required for one mixing. Put plaster and sand, if sand is used, in the other end of the box. Mix thoroughly, then draw the material into the water. Soak thoroughly. Allow the

plaster to soak for fifteen to twenty minutes before hoeing. This soaking is necessary owing to the peculiar composition of Wood Fiber Plaster, and the great avidity with which the fiber bond takes up water. If the plaster is not allowed to soak at this stage, it will require more labor to do the mixing and the mortar will prove unsatisfactory for the work.

After the plaster is soaked, work up the mixture in the usual way, adding sufficient water as needed to bring to the proper consistency. Apply as you would any hardwall plaster.

Straighten work with rod and darby, and before leaving finally use the float, knocking off bumps and filling up catfaces, but do not water float, as this has a tendency to kill face of work.

The best way to apply Wood Fiber Plaster is to first put on a thin scratch coat, and follow up with second coat after the first has begun to set. The work can be trowelled down smooth, but where a Trowel or Float Finish is desired the base coat should be lightly broomed before setting.

Covering Capacity. The covering capacity of any material depends largely upon the condition of the walls—whether straight, properly lathed, etc. Under average conditions the following data will be found useful to architects and others where Wood Fiber Plaster is called for:---

On Wood Lath, One Coat Work, Ready
For Finish.

One ton of neat Wood Fiber Plas-

ter will cover from 140 to 160 yards.

Sand Added to Wood Fiber. One ton of neat Wood Fiber Plaster added to sand in the proportion of one to one by bulk will cover 200 yards. Add one-third to one-half more for two-coat work.

On Wire Lath or Expanded One ton of Wood Fiber Metal, Two-Coat Work. Plaster added to sand in the proportion of one to one by bulk will cover 100 yards.

On "Empire" Plaster Board. One ton of Wood Fiber Plaster added to sand in the proportion of one to one by bulk will cover from 350 to 400 yards.

On Brick or Tile Walls and Hollow Plaster Tile.

Plaster added to sand in the proportion of one part plaster to two parts of sand by bulk, will cover from 200 to 225 yards.

"EMPIRE" CEMENT WALL PLASTER.

"Empire" Cement Wall Plaster, the original "Hardwall," is one of our standards, and is so well known to the building trades that it is not necessary to give it more than a passing notice.

This plaster is easily worked, thus enabling the plasterer to cover more space in a given time than with lime mortar; in fact, buildings can be finished with "Empire" Cement Wall Plaster in less time than it would take lime mortar to season. It will not pit or blister, neither will it burn up the fiber bond as hair is burned up in lime work. Cement Wall Plaster has good setting and maturing qualities, thus enabling the carpenter to follow the plasterer without loss of time; this advantage, coupled with the fact that there is no delay waiting for mortar to ripen as with lime, should interest those who look for good, quick results.

INSTRUCTIONS FOR MIXING AND APPLYING "EMPIRE" CEMENT WALL PLASTER AND "EMPIRE" ASBESTOS WALL PLASTER.

Mortar Boxes. See mixing directions.

Sand. Use a good quality of sharp, moderately coarse, clean sand, free from loam, dirt or frost. Dirty sand takes more plaster, hastens the set, and is one of the causes of poor results.

Mixing. The most satisfactory way to mix Hardwall is to first put a layer of sand and then a layer of plaster; hoe dry from one end of box to the other, working the materials together until thoroughly mixed. Draw material to top end of box, fill lower end with water and hoe material. Mix thoroughly—thin at first—adding sufficient dry plaster and sand to bring to the proper consistency for applying. Mortar should stand ten minutes after mixing with water. Always add water as soon as the materials are dry mixed.

Applying.—Two-coat work on wood lath. As soon as base coat is ready for darby, sprinkle work sparingly with water. Darby lightly so as not to force mortar through keys. Do not apply more at any one time than can be darbied before material begins to set. Cut down all angles with a trowel before plaster sets, so as to prevent cracks from shrinkage. When corners are cut through in this manner, it will leave the work free to shrink in drying and thus prevent ugly cracks that occasionally disfigure walls. These instructions apply to all corners—room corners, corners round flues, chimneys, etc. After the material is set the wall is then ready for whatever kind of finishing coat is desired.

Dry Three-Coat Work. On account of lath being liable to buckle more or less, we would advise doing three-coat dry work, first putting on a scratch coat, scratching the surface with a broom before the plaster sets. Allow first coat to dry before second coat is applied. The second coat can be floated or left ready for finishing coat. Dry three-coat work costs a little more than the usual run of plaster work, but the investment is good as the best possible results can be obtained.

For wire or metal lath, apply a scratch coat lightly covering the lath, scratch surface with broom before it is set. After first coat is set firm and hard, apply second coat, bringing it to a true surface ready to receive the finishing coat. In all cases, darby lightly, and use water sparingly. Double-fibered plaster is manufactured for this class of work and should be specified.

Covering Capacity. No exact figures can be given as to the quantity of "Empire" Cement Wall Plaster required for the different classes of work, as conditions and requirements vary so much in different localities. The following information will, however, be found useful when drawing up specifications:—

On Wood Lath, Two-Coat Work— One ton of Ce-That is, one coat ready for finish. Ment Wall Plaster added to sand in the proportion of one part plaster to two parts sand by bulk will cover about 220 yards, adding from one-third to one-half more for three-coat work; that is, two coats ready for finish.

On Metal Lath or Expanded Metal. One ton of Cement Wall Plaster added to sand in the above proportions will cover about 110 yards.

On "Empire" Paster Board. One ton of Cement Wall Plaster added to sand in the above proportions will cover from 300 to 400 yards.

On Brick or Tile Walls and Hollow Plaster Tile.

One ton of Cement Wall Plaster added to sand in the proportion of one part plaster to three parts sand by bulk will cover from 220 to 240 yards.

GYPSEMENT—THE PREPARED HARDWALL PLASTER.

No Solid Material to be
Added at the Building.

Gypsement has been put on the market to meet the demand for a ready-to-use Hardwall plaster. This material is scientifically prepared, the ingredients being thoroughly incorporated

with each other according to a formula arrived at after a number of elaborate and practical working tests. Gypsement is a plaster of even grade and is a distinct advance on all hand-mixed materials. Gypsement does not require the addition of sand—it comes from our mill ready for use—it means less labor and more uniform results than can be obtained by hand-mixed materials. Gypsement is invaluable for plastering in zero weather—for quick repair work, there is nothing just as good.

INSTRUCTIONS FOR MIXING AND APPLYING GYPSEMENT.

Mixing. Gypsement being a prepared plaster, the addition of clean water only is required. Sand must not be added.

Applying. The general directions given for "Empire" Cement Wall Plaster are applicable to Gypsement.

Covering Capacity. As before mentioned, the covering capacity of material is largely governed by conditions. The following estimated surfaces will, however, be found to be fair averages:—

On Wood Lath. One ton of Gypsement will cover about 75 yards, two-coat work; that is, one coat ready for finish, adding from one-third to one-half more for three-coat work, that is, two coats ready for finish.

On Wire Lath or Expanded Metal. One ton of Gypsement will cover about 40 yards, three-coat work; that is, two coats ready for finish.

On "Empire" Plaster Board. One ton of Gypsement will cover about one hundred and fifty yards.

On Brick or Tile Walls One ton of Gypsement will and Hollow Plaster Tile. Cover about 75 yards.

"EMPIRE" FINISH.

The old style of lime-putty finish has never been altogether satisfactory. Lime finished walls invariably shrink, and ugly cracks necessarily follow shrinkage. Again, lime will pop unless properly ripened, and, from our experience, we know it is seldom matured as it should be. Just think what this means—ruined wall decorations and a repair bill. Properly applied, "Empire" Finish gives a wall as hard and durable as marble. "Empire" Finish is ready for use as put up by us and only requires the addition of clean water. Lime and sand must not be added.

DIRECTIONS FOR USE OF "EMPIRE" FINISH.

Trowel Finish. Add water only. Let it soak a little before mixing. Apply when base coat is thoroughly set. Light coat, to be mixed very thin, first time over filling pores, grind in well and allow to draw for a few minutes, then put on second coat perfectly level, filling in all catfaces and imperfections. Third and last time over make the material as thin as can be handled on hawk. When partly set, trowel well and use a damp brush. Later, walls can be trowelled or brushed with a dry brush to bring out a smooth, glossy surface.

Covering Capacity. This depends altogether on the condition of the walls, whether straight or not. Under average conditions, one ton of "Empire" Trowel Finish will cover about 450 yards. If walls are dry, or very rough, more material will be required.

FLOAT FINISH.

The walls should be left the same as for white coat. Use just sufficient water to make float work free. The first coat should not be allowed to get dry before the coat finish is put on, as the suction will otherwise be too great. Float Finish should be put on in twenty-four to forty-eight hours after base coat is applied. On brick walls, follow up base coat closely. Use cork or carpet float

Covering Capacity. Under average conditions, one ton of "Empire" Float Finish will cover about 400 yards.

"GOLD DUST" FINISH AND "TROWEL" PLASTER OF PARIS.

These finishes should be used in the proportion of one part finish to two parts lime putty, thoroughly mixed. The base coat should be dry before finish of this kind is used, so as to enable the plasterer to cover all lath cracks and other imperfections.

Covering Capacity. We estimate that under average conditions one hundred and fifty pounds of "Gold Dust" Finish or "Trowel" Plaster of Paris added to lime putty in the proportion of one part finish to two parts lime putty will cover 100 yards of wall.

Lime Putty. Five bushels of lime will make sufficient lime putty for finishing 100 yards of wall; that is, when added to Finish as specified above.

In mixing finishes, it is absolutely necessary to keep mixing box, mortar board and tools perfectly clean. Always work walls top and bottom in order to avoid joinings. When trowelling finishes, do not use any more water than necessary, so as to avoid killing face of wall.

"EMPIRE" PLASTER BOARD.

Sound Deadener. "Empire" Plaster Board is a combination fireproofing lath. It is taking the place of wood lath, and is giving results that oculd not be obtained under the old system of lathing. It is a substitute, but at the same time it is an improvement on the material (wood lath) it takes the place Plaster Board is light in weight; it is tough, and presents a good plastering surface. Owing to there being no undesirable moisture, there is no shrinkage and warping of woodwork where Plaster Board is used. The material is sound-proof, a non-conductor of heat and a fire-retardent. It is a first-class sound-deadener. nailed between upper and under layers of floor boards, and, where used in this way, it makes the floors of slowburning construction. Used on buildings of frame construction, it is a good fireproofing for stairways and for nailing as a sheathing under the siding. This manufactured lath is a time-saver, as it can be put up twice as fast as wood lath. It is easily applied by any workman of average ability, and it can be cut to shape, either with a saw or lather's hatchet. It presents a smooth and firm surface for the economical use of plaster: there is no waste, as there are no lath spaces. Plaster Board will not burn: wood lath will.

"EMPIRE" HOLLOW PLASTER TILE.

(Skalatile)

Plaster Tile is being made to fill the demand for a light fireproofing partition and furring. The tile as manufactured by us is light, tough and durable. It is a first-class sound-deadener and fire-retardent. Plaster Tile can be sawed as easily as lumber, and trim can be nailed to it without plugging. Tile can be laid up quickly, and walls plastered as soon as set up. It cannot be burned. It is a non-conductor of heat and cold, and in addition to being the toughest fireproofing now on the market, it is the lightest. It does not contain anything that will stain the plaster work, consequently, the most delicate decorative tints can be used on walls of which plaster tile forms the base.

NATIONAL STEEL STUDDING FOR PLASTER BOARD OR WIRE LATH PARTITIONS.

National Steel Studding is the only metal stud manufactured upon which Plaster Board can be applied. It is of light construction, durable, easy to erect, and it economises space.

The Steel Studs should be spaced 32 inches on centre, and held in place top and bottom by stringers to which the studding is securely locked. Where Plaster Board is used, the boards are braced with double-cross clips, spaced 7½" apart. The studding should be securely fastened every 6" or 8" to door bucks and wood framing at all openings.

National Steel Studding lends itself to all forms of fireproof partitions. With 1" stud a solid partition finishing 1½" can be obtained. The hollow forms give an air space of ½" to 6½", and conceal all wiring.

pipes, etc.

GYPSTONE.

The rough cast plaster is an indestructible finish for exterior use. It is a specially prepared material, and will give rough-cast and imitation stone effects not to be obtained by using hand-mixed materials. The old method of exterior plastering has always been unsatisfactory, as the back coating made up of lime mortar, with a little cement added for color effect, being of an open and porous nature, readily absorbs water. This of course will eventually settle at the bottom of the walls and destroy the exterior plaster work as soon as caught There is no lime in Gypstone-nothing that by frost. will absorb moisture after the material is once set. Gypstone is waterproof, and can be used with equally good effect on brick, tile, wood or metal lath, and Plaster Board. Gypstone can be supplied in natural or colored tints.

DIRECTIONS FOR THE USE OF GYPSTONE.

Rough Cast. Apply coat of Gypstone and scratch with lath scratcher. When set, apply second coat Gypstone. Follow second coat close with rough cast. The rough cast should be put on with a properly made dasher.

Imitation Stone. Apply coat of Gypstone and scratch with lath scratcher. When set, apply second coat, using darby and rod. Float with cork or cross grain float. Block off in sizes to imitate stone. This work can be done in one coat, but the best results are obtained by applying two coats.

Pebble Dash. Apply coat of Gypstone, and scratch with lath scratcher. When set, apply second coat of Gypstone. Follow close with dash so as to obtain a good hold for pebbles. Pebbles should be about half embedded in second coat. Do not pound interior walls while material is setting. Material should be protected from weather until set.

Do not wet Plaster Board before applying Gypstone. Wood lath, brick or tile should be well wet before

Gypstone is applied.

ACOLITE BOND MORTAR.

Is a specially prepared plaster to be used for the scratch coat on concrete ceilings and walls. To be used as delivered in the original package with the addition of water only, and be mixed the same as the Wood Fiber Plaster. This material used on concrete walls and ceilings is guaranteed to adhere when applied as above directed.

ACOLITE CEMENT PLASTER.

Is a specially prepared material for the scratch coat on expanded metal. Made of a special mixture which insures against its corrosion of the metal lath. To mix the same as Hardwall Plaster with the addition of two parts sand to one part by weight of the Acolite Cement Plaster. Where metal lath is used we specially recommend this material.

"EMPIRE" KEENES CEMENT.

The "Empire" Keenes Cement is made from carefully selected rock scientifically treated by improved process methods and in accordance with our own special formula.

The "Empire" Keenes Cement is a material specially made for hard finishing Base, Mouldings, Wainscoting, Castings, and any other work which requires hardness, and has proved equal to the very best of the imported Brands. Some users have pronounced it superior in hardness.

We specially recommend the "Empire" Keenes Cement on all work where the best class of work is required.

Write for special Booklet and Specifications.

"EMPIRE" ARTIFICIAL CAENSTONE CEMENT.

The natural decorative possibilities of a natural Caenstone are great, but owing to the high cost of the natural Caenstone there has been a great many Artificial Caenstones on the market, and have met with success owing to the fact that the Artificial Caenstone can be made so that it can be hardly distinguished from the original Stone.

The "Empire" Caenstone Cement is equal to any imported article, and for a material where such work as a Finish for Lobbies, Columns, Walls in Vestibules, Churches, Arches, Halls, Theatres, or any surface where an artistic effect, durability and hardness combined are desired it has no superior.

We guarantee the "Empire" Caenstone Cement

equal to any imported Artificial Caenstone.

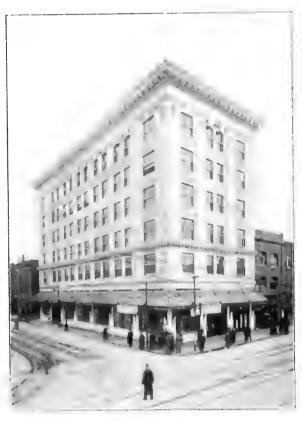
Write for Specification Booklet.

BUILDINGS ON WHICH "EMPIRE" PRODUCTS WERE USED

The following illustrations of some of the most prominent buildings in Western Canada on which the "Empire" brand of Gypsum Products have been used, is sufficient evidence of the quality and popularity of our products.

Use the materials which have been tried, tested, and proved to be the most satisfactory on the market.

Don't Experiment!



Burns' Building, Calgary

Hodgson, Bates, Beattie, Architects

"Empire" Finish used throughout



Bank of Commerce, Winnipeg

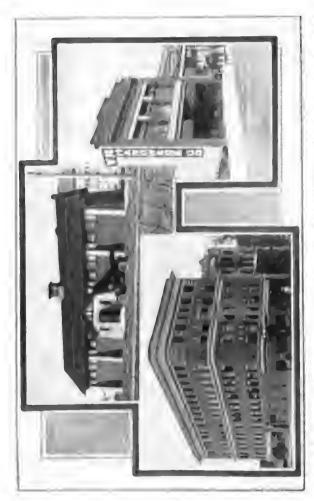


G.T.P. Hotel, Edmonton, Alta.

Ross & McFerlune, Architects, Montreel



Lannes Contractor Co., Builders Afriandra High School, Medicine Hat, Alta-



Sherinch Block, Leibbridge, Alta Ernen E Career Architect

Have Bardware Co., Lethbridge Cenest C. Carson. Apolither

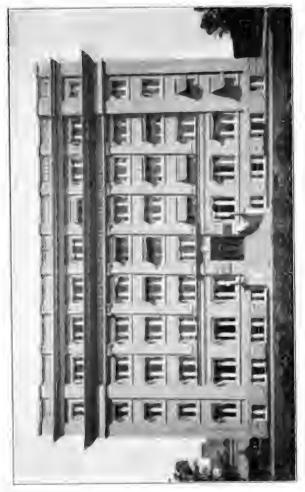
Cymnasium, Lethbridge Ersen L. Corver, Archives



C.P.R. Depot, Winnipeg



W. B. Poucher's Residence, Edmonton, Alta.



C.P.R. Department of Natural Resources Building, Calgary Hodgan, Batos, Beatte, Archivers, Wanner, Calgary



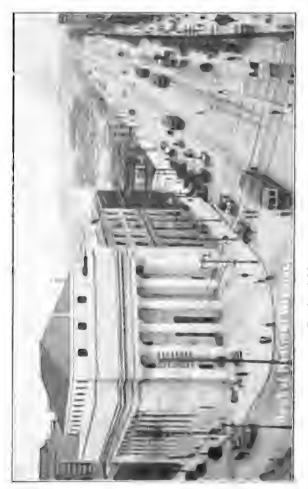
Confederation Life Building, Winnipeg
Carter-Halls-Aldinger, Contractors



McArthur Building, Winnipeg J. & G. Russell, Architects Carter-Halle-Aldinger, Contractors



Warren & Whitmore, Architects .



Bank of Montreal, Winnipeg

Norcross Bros., Confractors



Interior Bank of Montreal, Winnipeg Plastered throughout with "Empire" Plaster

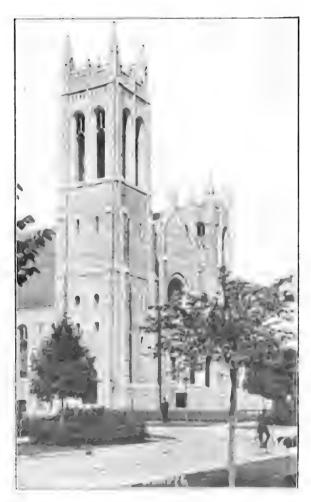


Calgary Furniture Store, Ltd., Calgary Brown & Vallance, Architects, Montreal Acolite Bond Mortar used throughout



Lindsay Building, Winnipeg

J. D. Atchison, Architect Carter-Halls-Aldinger, Contractors



Westminster Church, Winnipeg J. & G. Russell, Architects Malcom Bres., Contractors



Normal School Regina, Sask.



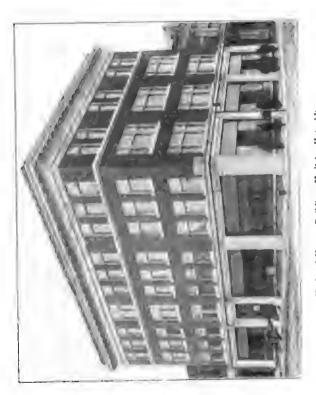
Peter Lyall & Sons, Contractors E. W. & W. S. Maxwell, Architects, Montreal



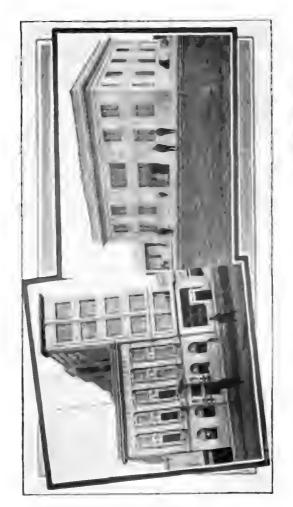
Piedmont Hotel, Calgary
Mr. Ellingwood, Architect Peter Lyall & Sons, Contractors



The Canada Life Assurance Company Building, Calgary Brown & Vallance, Architects, Montreal



Huckvail-Hooper Building, Medicine Hat, Alta. V I Williams Architect



C. W. Sharp & Son, Contractors

Union Bank of Canada, Edmonton Nagoo & McDennid Accinete



General Electric Building. Calgary

H. Ballen, Plasterer

Carter-Halls-Addinger, Buildors



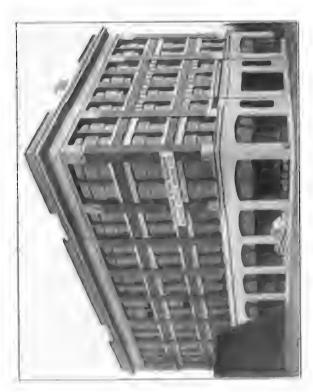
Victoria Block, Vancouver, B. C.



Eim Street School, Medicine Hat, Alta.

W. T. Wilhams Architect

A. P. Burns, Builder



N. W. Travellers' Building, Calgary
Durtons Richards. Architects Peter Lyad & Sons Guiders Wm. Sutherland Pl.



Grain Exchange, Winnipeg



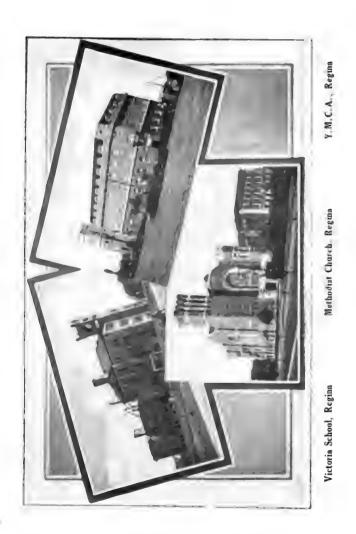
Y. W. C. A., Winnipeg, Man.

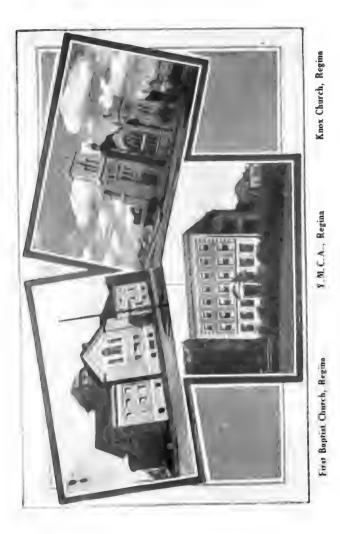


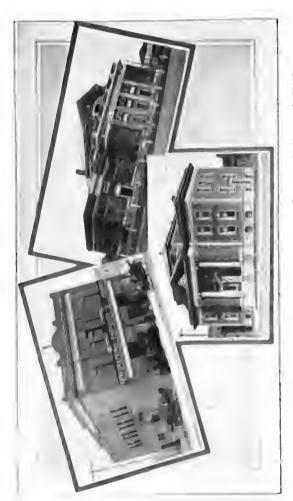
Broadway Court, Winnipeg



Canadian Bank of Commerce, Vancouver, B.C.

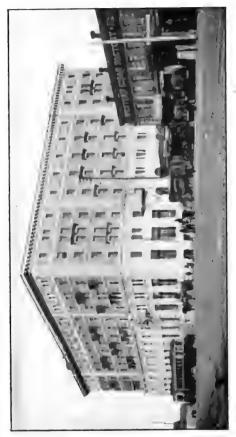






Kaiguts of Pythias fiall, Lethbridge Linest & Carror Architect

Prominent Buildings in Lethbridge H. M. & W. A. Whide, Architects Smith Brus. & Wilson, Contractors

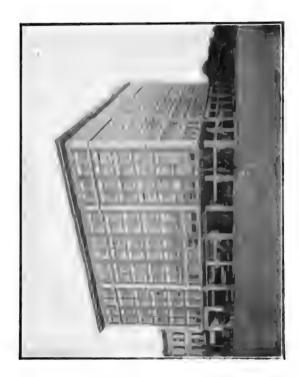


Royal Alexandra Hotel, Winnipeg

E.W. & W. S. Maxwell, Architects

Poter Lyall & Sons, Contractors





Claydon Bros., Contractors



General Hospital, Winnipeg

J. D. Atchuon & Co., Architecta





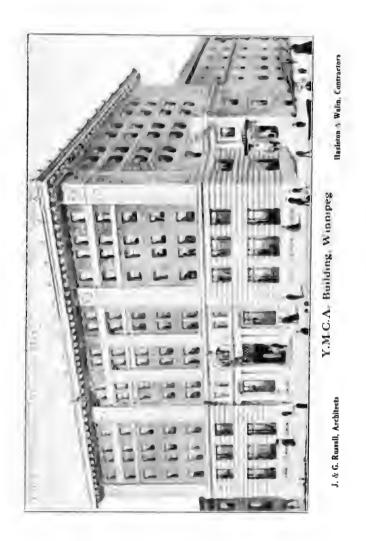


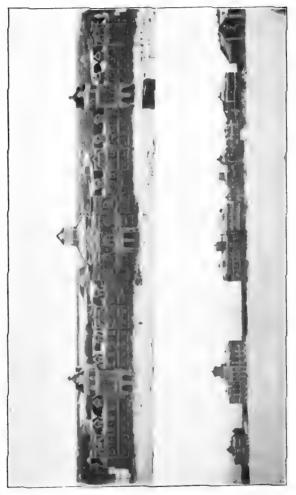
General Post Office, Winnipeg



Devon Court, Winnipeg

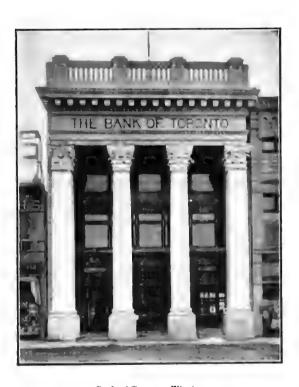
J. D. Atchison, Architect



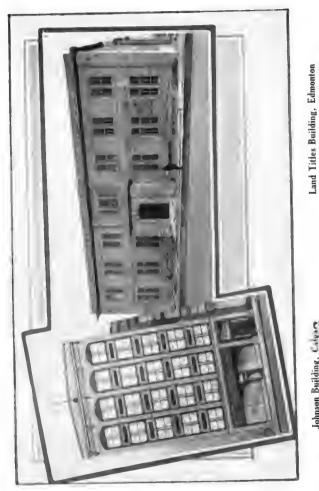


Agricultural College, St. Vital, Man.

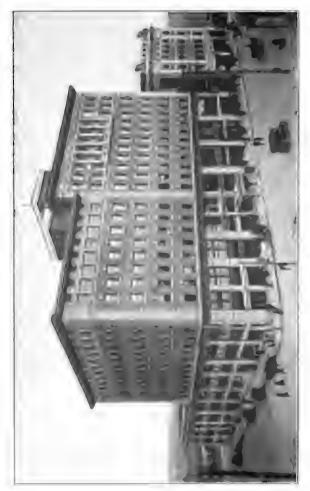
Thomas Kelly & Son, Contractors



Bank of Toronto, Winnipeg

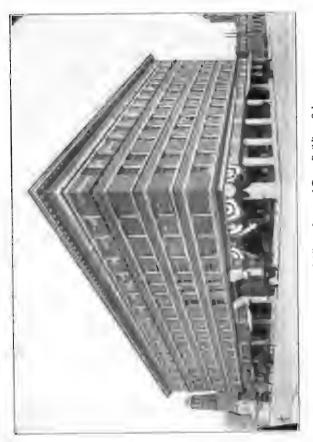


Johnson Building, Cateron Land Titl



Togler Building, Edmonton, Alia.

Magno & McDunnid, Amarica



Beveridge, Travis and Alberta Loan and Trust Building, Calgary Hudgson Bates, Beattre, Architects



Same Edmonton Residences finished with " Empire" Wood Plaster



House of Parliament, Edmonton, Alta.

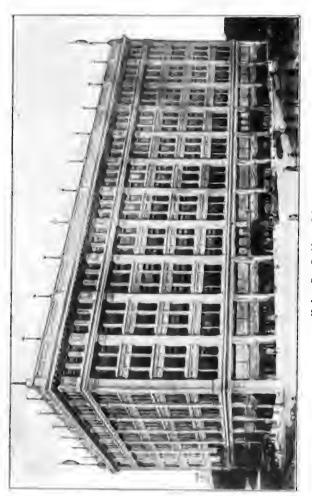


Den Theatre, Allen J. A. League, Accinica

Bijou Theatre, Allen Schittet



Court House, Saskatoon, Sask.

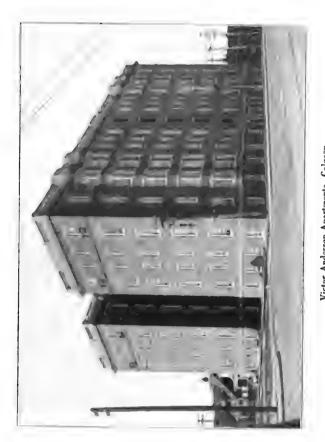


Hudson Bay Building, Calgary Burke, Horward & White, Architects, Toronto

Carter-Balls Aldinger, Contractura



Alberta University, Edmonton



R. B. Whitton, Architect

Victor Anderson Apartments, Calgary
t "Empire" Gpaum Fireproafing used throughout



Boyd Building, Winnipeg

J. D. Atchium, Architect



McNeil & Trainer, Contractors



Imperial Bank, Winnipeg



Loo Building, Vancouver, B.C.



Somerset Block, Winnipeg



Bank of Montreal, Portage la Prairie



W. W. Blnir, Architect
C. P.R. Building, Edmonton
C. W. Sharp & Son, Contractors
Bodman & Thompson, Plasterers

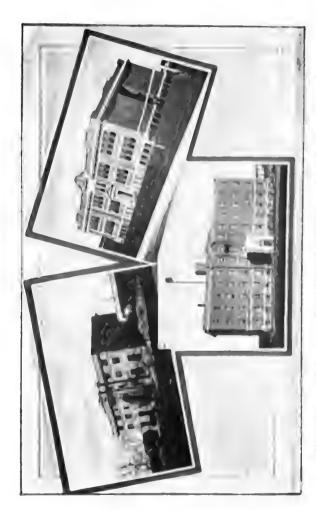


Electric Railway Building, Winnipeg Carter-Halls-Aldinger, Contractors



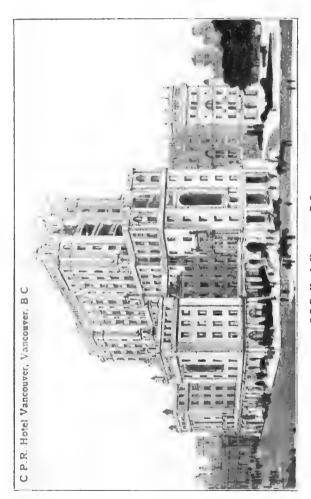


Dominion Bank, Calgary



General Hospital Regir.

Strathenna School Regma



Panter & Swells, Architects

C.P.R. Hotel, Vancouver, B.C.

Skene & Christie, Contractors



Court House, Edmonton, Alta

Architects' Specifications and General Directions

"EMPIRE" WOOD FIBER PLASTER

Grounds-

For Wood Lath: to be ¾ inch. For Plaster Board: ¾ inch. For Brick or Terra Cotta Tile: to be ½ inch.

For Brick or Terra Cotta Tile: to be ½ inch.
For Plaster Tile: ½ inch.
For Wire Lath or Expanded Metal: ¾ inch.
Wood Lath.—To be No. 1 White Pine or Spruce, free from knots, sap or bark. To be spaced not less than one-quarter of an inch apart and well nailed. If lath are dry, they should be liberally sprinkled with water three or four hours before the plaster is applied. This necessary treatment of more lath is a preventive for sary treatment of wood lath is a preventive for buckling and lath cracks. Half-green lath are preferable

Planter Board.—To be "Empire" Plaster Board, manufac-tured by the Manitoba Gypsum Co., Idd., and to be applied in accordance with their printed instructions. Hollow Planter Tile.—To be "Empire," manufactured by the

Manitoba Gypsum Co., Ltd., and to be set up in accord-

ance with their printed instructions.

Plaster—To be "Empire" Wood Fiber Plaster, manufactured by the Manitoba Gypsum Co., Ltd., and to be applied in accordance with their printed instructions.

"EMPIRE" CEMENT WALL PLASTER.

Grounds.

For Wood Lath: to be ¾ inch.
For Brick of Terra Cotta Tile: to be ½ inch.
For Plaster Tile: to be ½ inch.
For Plaster Foard: to be ¾ inch.
For Wife Lath of Expanded Metal: to be ¾ inch.
Wood Lath.—To be No. 1 White Pine or Spruce, free from knots, sap or bark. To be spaced one-quarter of an inch apart and well nailed. If lath are dry, sprinkle liberally with water three or four hours before plaster liberally with water three or four hours before plaster is applied, so as to cause lath to swell and thus avoid buckling. Green lath are preferable, as seasoned lath

nie too dry.

Pinster Board. To be "Empire" Plaster Board, manufactured by the Manitoba Gypsum Co., Ltd., and to be applied in accordance with their printed instructions.

Hollow Plaster Tile.—To be "Empire" Hollow Tile, manufactured by the Manitoba Gypsum Co., Ltd., and to be

applied in accordance with their printed instructions.

Plaster.—To be "Empire" Cement Wall Plaster, manufactured by the Manitoba Gypsum Co., Ltd., and to be applied in accordance with their printed instructions.

GYPSEMENT—THE PREPARED WALL PLASTER.

Grounds

unds.—
For Wood Lath: to be ¾ inch.
For Plaster Board: to be ¼ to ½ inch.
For Brick or Terra Cotta Tile: to be ½ inch.
For Plaster Tile: to be ½ inch.
For Wire Lath or Expanded Metal: to be ½ inch over face of lath.

Wood Lath.—To be No. 1 White Pine or Spruce, free from knots, sap or bark. To be spaced not less than one-quarter of an inch apart and well nailed. If lath are dry, sprinkle liberally with water three or four hours ory, spinkle interactly with water three or four hours before plaster is applied. This causes lath to swell and prevents buckling and lath cracks. Green lath are preferable, as seasoned lath are too dry.

Plaster Board, "To be "Empire" Plaster Board, manufactured by the Manitoba Gypsum Co., Ltd., and to be

applied in accordance with their printed instructions.

Hollow Plaster Tile.—To be "Empire" Hollow Tile, manufactured by the Manitoba Gypsum Co., Ltd., and to be applied in accordance with their printed instructions.

Plaster.—To be Gypsement, manufactured by the Manitoba Gymps Co.

Gypsum Co., Ltd., and to be applied in accordance with their printed instructions. No solid material to be added at the building.

"EMPIRE" PLASTER BOARD.

Grounds To be ½ inch.

Lathing—To be "Empire" Plaster Board (¼ full). Boards must be spaced not less than ¼ inch apart on all sides, and each edge must have a bearing on the stud of not less than ¾ inch.

Nailing.—Nail boards directly to studding, furring or joists

that nail middle of board, then outer edges. Use 14 inch wire nail with large head, set 4 inches apart. Drive nails firm and tight, so as to prevent any work-

Joints. Joints must be broken horizontally on the walls and at right angles with the ceiling joists. Ceilings requiring levelling should be furred with % x 2 inch strips set on 8 or 12-inch centers. In order to obtain greater rigidity, perpendicular joints on opposite walls Breater rigidity, perpendicular joints on opposite walls should not be on opposite studs.

Do Not Wet Hoards Before Applying Plaster.—Adhesion between plaster and the dry board is perfect.

Plaster.—To be

manufactured by the Manitoba Gypsum Co., Ltd., and to be mixed and applied in accordance with manufacturers' directions. "Empire" Wood Fiber Plaster is recommended, but Cement Wall Plaster or Gypsement may be used. Finish with "Empire" Finish (Trowel or Float), to be mixed and applied in accordance with manufacturers' directions.

"EMPIRE" PLASTER TILE.

Plaster Tile .- All partitions, column covering, wall furring, pipe chases and vent ducts, where shown on plans, shall be built of "Empire" Plaster Tile, manufactured by the be built of "Empire" Plaster Tile, manufactured by the Manitoba Gypsum Co., Ltd.
Partitions shall be 3-inch cored tile. Where cellings exceed 13 feet in height, 4-inch tile shall be used, unless otherwise specified or shown on plans.
Partitions shall be carried from fireproof floor to fireproof arch above and shall be tightly wedged by slushing mortar in top joint. Fireproof floors shall be properly levelled to receive tile before partitions are commenced. Partitions must not be stopped at suspended ceilings. Tile shall be laid with cores horizontally, joints to be broken on each tier of tile. In toping course blocks shall be laid with cores vertically. Tile shall be laid in mortar made up of one part "Empire" Cement Wall Plaster to two parts clean, sharp sand. Topping course to be slushed with an all Hardwall mortar. Clay or lime shall not be mixed with gypsum mortars.

often as necessary with No. 12 galvanized wire. Construct all pipe chases and vent ducts shown on plan, except those built into brick, stone or concrete walls, with 2-inch solid "Empire" Plaster Tile. Furr all outside walls, where shown on plans, with 2-inch "Empire" Hollow Plaster Tile laid up against the wall and securely spiked to same every square yard

Plastering-Grounds.-Shall be 1/2-inch.

Plaster.—The base coat shall be made of one part "Empire" Cement Wall Plaster, added to three parts clean, sharp sand, mixed and applied in accordance with manufacturers' directions. To be applied in one coat, well-filled out to grounds, and darbied to a true and even surface. Finish with "Empire" Finish, Trowel or Float, to be applied in accordance with the manufacturers' directions.



A FEW POINTERS ON PLASTER.

Keep tools and mortar board clean. Always use clean water, free from alkalı, salt or other impurities.

Never wash tools in water to be used for mixing plaster. Wash tools in a separate barrel of water.

Do not mix more material than you expect to use in one hour.

Do not re-temper plaster after it has commenced to set. Clean box after each gauging, and do not mix one gaug-

ing with another.

Clean jambs thoroughly, and cut mortar away from base before material sets.

Characteristics of the property point in winter, and

keep out hot blasts of wind in summer, so as to keep moisture in walls while setting.

Should work show white spots after drying, the material is either not properly mixed, or walls have dried too gandly. Wet white spots with clean water, and brush until set up.

Brick or tile walls, and hollow plaster tile should be sprinkled before plaster is applied.

HOT WEATHER HINTS.

June, July and August are hot months. Hot weather will affect the setting of hard plaster—if you let it—if you are careless of directions, unmin Iful of suggestions. But with just ordinary care, the same thought that you would take of your watch or your clothes, you can prevent any disappointment. Our hard mortars will work just as sure and true as the rising and setting of the sun-in hot weather or any weather.

READ THESE HINTS.

(They apply to cement plaster, wood fiber plaster, any kind of hard mortar containing gypsum.)

Rock Gypsum is part water—about 20 per cent, of it. When calcined, the water boils out. It is then it. When calcined, the water boils out. It no longer Rock Gypsum, it is Plaster of Paris. mixing and application, water is the chemical force that causes re-crystallization, or "setting up." The Plaster of Paris in the mortar changes back into Gypsum Rock.

Bear in mind, then, that Gypsum must have all it wants drink in hot weather, or it won't work. If thirsty or ry," it will be in a hurry to get through, and will only "dry," it will be half do its work.

Thirsty Lath. Remember, too, that materials get "awfully dry" in this hot weather. Wood lath, in particular, gets very thirsty, and will drink a lot. They'll drink up the water that belongs to the gypsum; drink it right up out of the plaster when you put it on the wall, and let the plaster go dry, if you let 'em.

Plain Plaster Talk. How to secure a perfect job in hot weather. Things do not generally happen without a cause. Having impressed upon you in the foregoing fashion, the chemical principle of hard mor-

tar, the reason for plaster "going dry," we give you, in plain language, the following precautions, which, if you follow with ordinary care and judgment, will prevent any trouble and insure a perfect plastering job, no matter how hot the weather.

Wet Down The Lath. Turn the hose on it; soak it good and plenty; wet it thoroughly all over—every spot. Then give it a chance to soak; want an hour or so before you put on the plaster. Then the lath will have all the water it wants, and won't absorb any from the mortar. If you don't do this, the water in the plaster will be quickly absorbed by the lath (some of it, or most of it, according to how dry the lath are), and not enough left in the mortar to thoroughly set it. By "thoroughly set" we mean, every spot, every inch of the wall, uniformly hard and strong

Hot Air. All openings in the house should be carefully screened with cloth, or by other means, to prevent blasts of hot air from drying up the water in the plaster. Plaster Will Set, no matter how long it holds. If it does dry out before it hardens, "give it another drink" by spraying the wall or sprinkling liberally with a brush. It is a good plan to sprinkle the floors, it cools the atmosphere, and the plaster will get some of the moisture.

Walt A Little. If you find the material is holding too long, too slow in setting, it's a good plan to leave the mortar in the mixing box from 20 to 30 minutes after it is mixed. This will give it a chance to thoroughly soak up the water, and will hasten the set considerably. But use judgment Don't make a regular practice of this; only do it when increasity, as explained.

Thin Coats. If the plaster is applied too thin, it is practically impossible to reake slow-setting material get hard without first wetting the lath, for the dry lath will quickly absorb the water from the small body of mortar, and it will not set until enough water has been thrown on it to thoroughly wet the lath and leave enough to set the plaster. Save time and bother by wetting the lath first.

Dry Lath Make Trouble. Dry lath are bound to swell when wet. If you don't swell them before you put on the plaster, they'll swell and buckle afterwards. That makes the plaster warp and crack badly, and it isn't the plaster's fault, either.

Quick-Setting Plasters. Hot weather will occasionally cause plaster to set up quickly. Trouble of this kind is easily remedied by the addition of a small quantity of retarder which we shall be pleased to supply, and which should be used in accordance with the printed directions on the package. Look out for dry lath.

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